

Nick Grattan Consultancy Ltd

we demistify SharePoint expert-led training proven consulting custom software

Training Specification: Microsoft SharePoint 2010 – Developing applications with Visual Studio 2010

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Overview

This **five day** training course teaches how developers how to create SharePoint applications using Microsoft Visual Studio 2010 and related tools.

Prerequisites

Experience in developing applications using Microsoft Visual Studio and .NET. Knowledge of web development techniques including ASPX, JScript and CSS. Experience in creating, configuring and administrating SharePoint sites.

SHAREPOINT FROM A DEVELOPERS PERSPECTIVE

What is SharePoint? SharePoint as a development platform – benefits and features offered to developers. The SharePoint Object Hierarchy – Working with SharePoint objects.

BUILDING A SHAREPOINT DEVELOPER ENVIRONMENT

Developer setup - Testing environment - Visual Studio SharePoint Tools and Project Types and Project Item Types – List Definition Elements – List Definition Schemas – List Instance Elements and Data - Other Essential Tools such as SharePoint Designer and PowerShell.

EXPLORING THE SHAREPOINT OBJECT MODEL

Server and Client libraries - SPWebApplication, SPWeb, SPList, SPListItem – Creating and deleting objects and Memory Management in SharePoint.

CUSTOMISING THE SHAREPOINT USER INTERFACE

Master Pages – Managing Site Assets – Creating Menu Items, Custom Actions and Ribbon Controls. Client-side dialogs .

WEB PARTS

Developing Standard Web Parts –Visual Web Parts – CreateChildControls and Render override methods – Exposing Custom Properties - Connected Web Parts.

WORKFLOWS

SharePoint Designer Workflows – Initiation Form Parameters – Local Variables – Conditions and Actions. Visual Studio Workflows – Sequential and State Machine Workflows.

EVENT RECEIVERS

Types of Event Receivers and Events – List Item, List E-Mail, List Workflow, List Event, Web Event and Feature Receivers – Cancelling Events.

TIMER JOBS

Creating a Timer Job – Defining a Schedule – Deploying and Retracting Timer Jobs

USING EXTERNAL DATA

Business Connectivity Services – External Content Types and External Lists – Creating Connections to External Data (SQL Server, WCF Web Service, .NET type) – Creating External Lists and Forms – Securing External Content types.

PROGRAMMING SHAREPOINT SECURITY

Authentication and Authorization – Users, Roles, Groups, Permissions & Permission Levels.

PACKAGING SHAREPOINT APPLICATIONS

Solutions and Features - Feature Receivers – customising the installation/de-installation process – Sandboxed solutions.

ADVANCED APPLICATION CONCEPTS

SharePoint Application Lifecycle Management - SharePoint Guidance - Application Architecture patterns - MVP, MVVM - Performance Testing - Unit Testing